Fig. 1

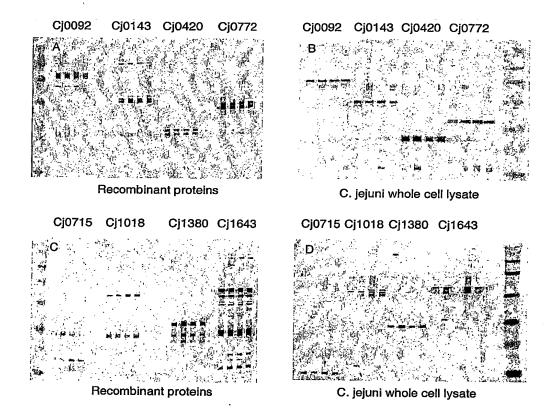


Fig. 2

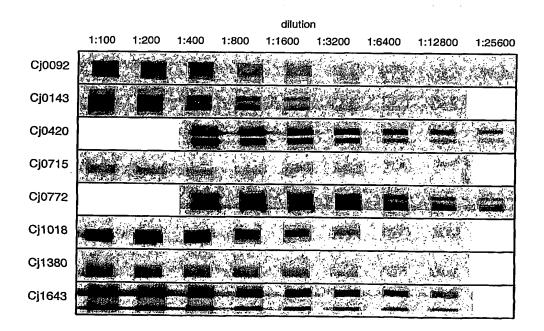
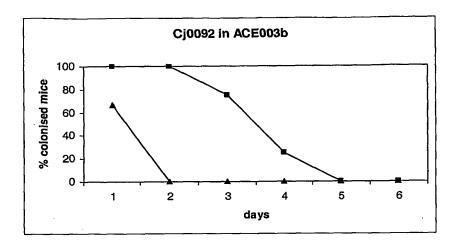
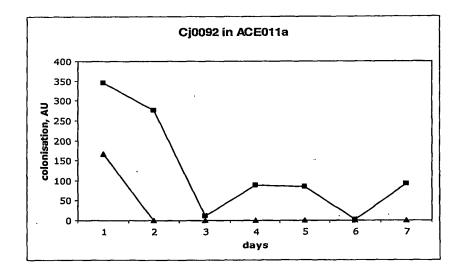
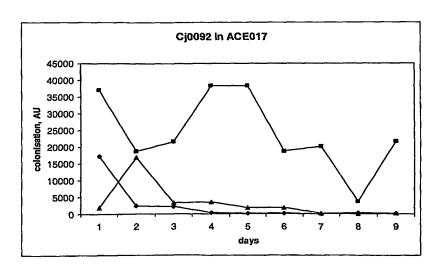


Fig. 3

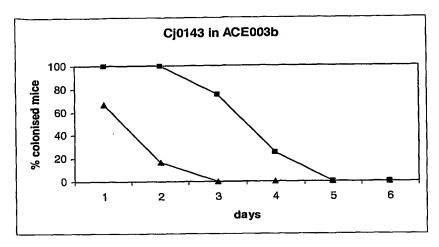


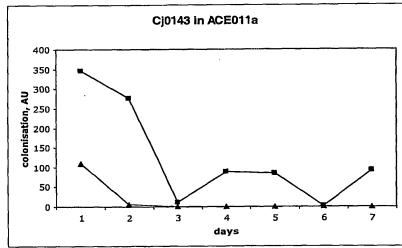




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Fig. 3





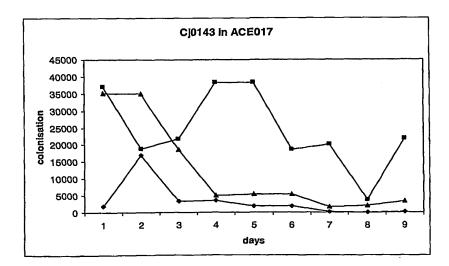
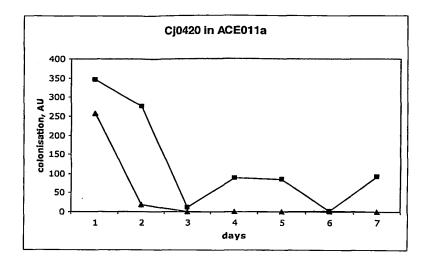
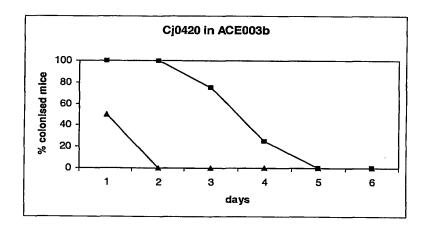


Fig. 3







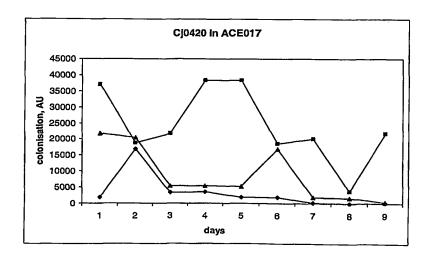
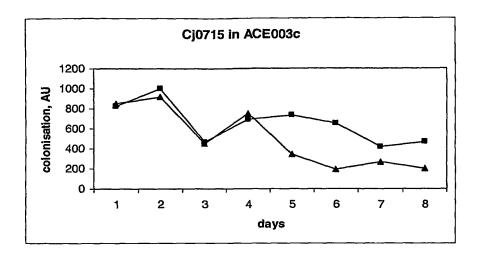
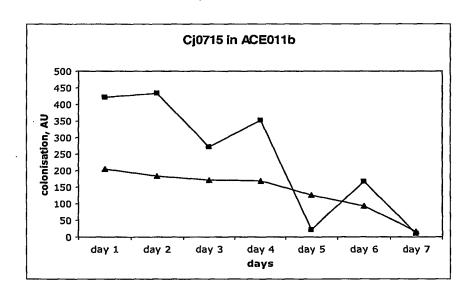


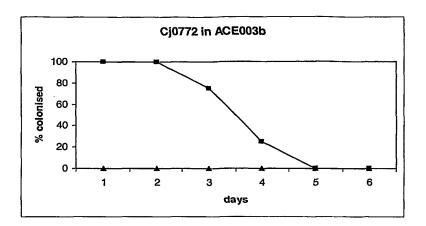
Fig. 3

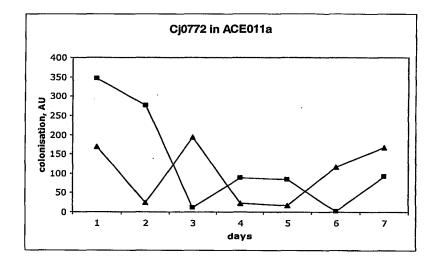




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Fig. 3





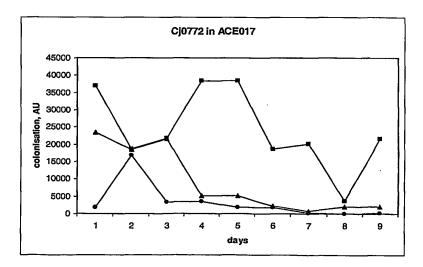
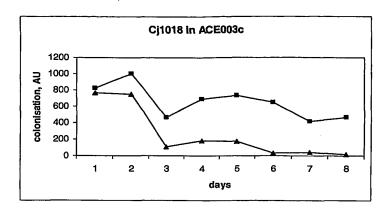
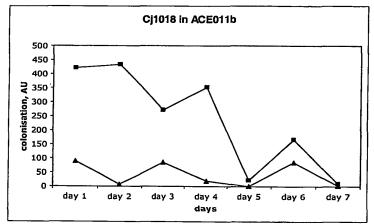
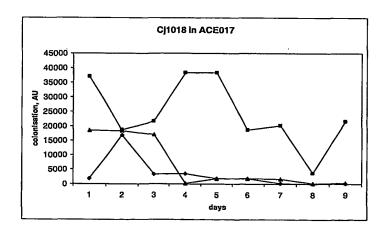


Fig. 3

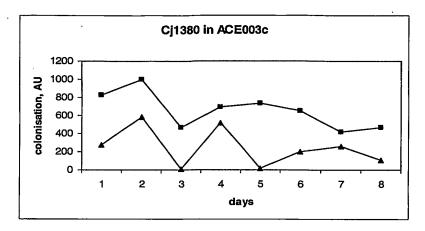


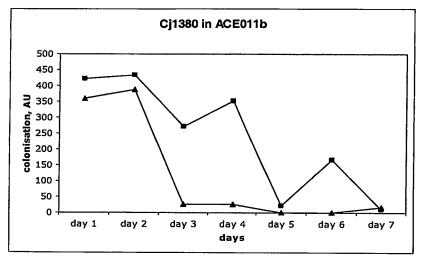


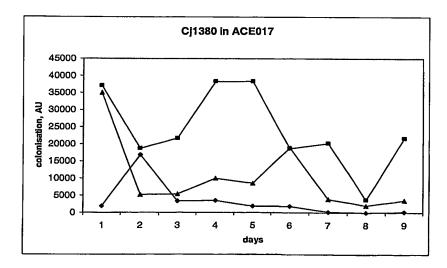


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Fig. 3

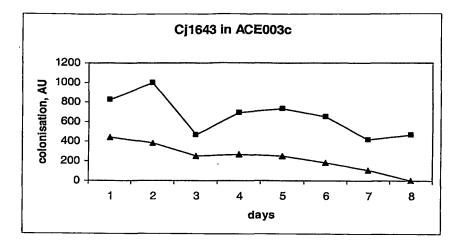


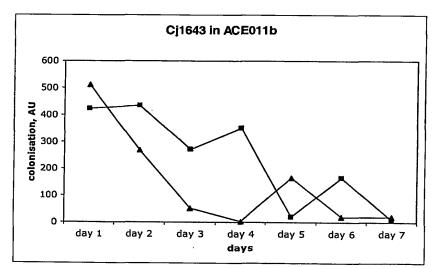




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Fig. 3





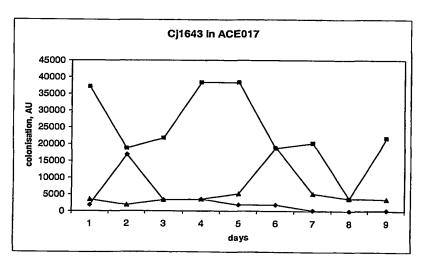


FIG. 4 11/20

Sequence listing

SEQ ID NO:1 ACE83 Cj0092

>AnrP630851 (NC_002163) putative periplasmic protein [C. jejuni]
MKKILFIGSLVMASLLYAQGSQPVEITQQDINTQNEMSDASTKDITPKSIEDFFEEFADNFGIEYGITKD
GKTFYTGKSTVAVNDTDPQFAQALQNAYQKAMLNLQSEFIRDAFGRIATSKIQNYEADNSTNAKEFDELP
KGDKVDQILNKLTQLAGAQLDKALKDLGIDTNSLSEDRKKTLLKQEFLNKTMTNAIGSMSGLVPVQTIVT
QRRGEYDVGVVAVISNKTRQLAKDMALARQSAIKGKGKAISEYLPKDTKGFLNEYGIRLVYDENGAPIIL
SYGNWGYVADPSNAKKTNILEDRAKETALTMADAAIIEFINTNLSLKDERTTGDTYEEIIKQSINVNDSS
TQEQTQNITNIIDKVNSKIKASASGKIRGIRTLKKWSYTSENGIEHVGAVRFYSYENLANTNEALNSKSN
ATKNEAKKSSSIQRSSNVVNSMDDF

SEQ ID NO:2

ACE 5 Cj0005

>AnrP544820 (NC_002163) putative molybdenum containing oxidoreductase [C.

MKQNDQKENRRDFLKNIGLGLFGISVLSNFSFENFLGSKALAKELPDFKIEGKKDLIYHGEKPLTAETEI YALDSDFTKPENFFVRNNGLPPSLETIKERLHKGWTLEIDGESIINKKSYTIEDLKKKFKTYTYALTVEC GGNGRSEVIPSTKGTQWGYGAVACGRWTGVRLKDILKDCGIKNDAVYIGYYGIDTKLNGEETSPISRGVPISKALQDETLIAWAYEGKDIPLVNGYPLRLVCGGYPASTSGKWLYKISVRNKIHDGEKMEGSYKVPVNPV KPGDFNYKGEMKIIESMPIRSVITNIKNGSEIKANKKFEVRGKAWAGELEVSEVYVSNDYGVTWTKAKVE KPLNRLAWQKWSAQISIPTKGYYEIWARAIDSQGNSQPMVLAQWNPGGYINNACHRVNVYGV

SEQ ID NO:3 ACE 29 Cj0029

>AnrP372217 (NC_002163) cytoplasmic L-asparaginase [C. jejuni]
MKKAKSRIAILGTGGTIAGFIDSTIATTGYAAGAIDIDVLIKAVPQIRDLADISWEQIANIDSSNMCDEI
WLRLAKKIAKLFAEGIDGVVITHGTDTMEETAYFLNLTIKSDKPVVLVGAMRPSTAISADGPKNLYNAVA
LVVNKEAKNKGVMVAINDKILSARGVVKTHSLNVDAFSSPDFGDLGYIVDGKVFFYNNVIKAHTKNAPFD
VSKLTSLPKVDILYSYSNDGSGVAAKALFEHGTKGIVVAGSGAGSIHKNQKDVLKELLKKGLKVVVSSRV
VAGCVAVSDSDEKLGFISAEDLNPQKARVLLMLALTKTSDPKKIOEYFLKY

SEQ ID NO:4 ACE 37 Ci0037

>AnrP501075 (NC_002163) putative cytochrome c [C. jejuni]

MKKHILLIGICLSLSLSAKSVSDYKVGEELSDKEGVEYFKELSKRPVQEWPNKNLSINDVPKGKQGDLIR YGIELLSKTESTLGPYSKLKKTSNEVNCISCHMDNDGNGLPGTKKYVIPFLNILNNYPRLDIETMKIISV EDRIRGMGGTDSHRFPNDSKEMKAILAYFKWLKEAYGIKDGVKLEGDFFAKMNFPNRPADPVRGKKLFEE NCVACHGERGLGVKNDNYEQGSGHLYPSLLIYPDGGHMAMIPFLARFLKSAMPFGASADNPILSDEDALD IAAYVNTGFVRMPITTTENRAGLDTAYSKSPSLKPEYFASPQNLDPKEYIKVKYGPWKNPNHFPGE

SEQ ID NO:5

ACE 84 Cj0093

>AnrP666574 (NC_002163) putative periplasmic protein [C. jejuni]
MKIIKILFLGLFLSLSLNAKVITTTSTKSSTGEGTGLTREDAINNAIIEAIGKMSGVSINSLKKSNTSVS
TDNSGSNIQDNYSEQISKATKGRADTYEINSVEQDANGKYTANVTIFKTTTTKKYQAPGLSADNRRSITV
FDSTPDAAKRGIGSALQQKIISDLLQSRKFNVLDRDSSGYYEMEKALIKSGDAASDEVYKLKNMLATDYI
LLFSISGLEGKQKTSNLTGKSKTEIEVIVDYRVLLFATRQIKFSNTLSMKVNLKDNSLSANETALKQIAN
RIAGDILNAIYPLKVASVENNEVIFSQSLNQGDVYECFALGKVIKDTYTKENTGRVESKTGSIEITRTSP
KFSYAKITEGSVKVGDICRPLSNTGSGNGYTIGRDANYQTQEGGGVNLGF

SEQ ID NO:6 ACE 98 Cj0107

>AnrP732169 (NC_002163) ATP synthase F1 sector beta subunit [C. jejuni] MQGFISQVLGPVVDVDFNDYLPQINEAIVVNFESEGKKHKLVLEVAAHLGDNRVRTIAMDMTDGLVRGLK AEALGAPISVPVGEKVLGRIFNVTGDLIDEGEEISFDKKWAIHRDPPAFEDQSTKSEIFETGIKVVDLLA PYAKGGKVGLFGGAGVGKTVIIMELIHNVAFKHSGYSVFAGVGERTREGNDLYNEMKESNVLDKVALCYG QMNEPPGARNRIALTGLTMAEYFRDEMGLDVLMFIDNIFRFSQSGSEMSALLGRIPSAVGYQPTLASEMG KFQERITSTKKGSITSVQAVYVPADDLTDPAPATVFAHLDATTVLNRAIAEKGIYPAVDPLDSTSRMLDP NIIGEEHYKVARGVQSVLQKYKDLQDIIAILGMDELSEEDKLVVERARKIEKFLSQPFFVAEVFTGSPGK YISLEDTIAGFKGILEGKYDHLPENAFYMVGNIDEAIAKADKLKG

PCT/DK2004/000803

FIG. 4 12/20

SEQ ID NO:7 ACE 103 Cj0112

>AnrP511634 (NC_002163) periplasmic protein [C. jejuni]

MKKIVAIFLVFLGSLWAEDPVIDVVNSGVVLPKIIVKDNSNLSDENLKKSFYNIIVNDLKVSSNFEVVAN ATETSNYI, FEYTLNKNGNTLSLNVKIKAGGSDKSEQTYTLNGLEQYPFLAHKSVKASVNALGLAPVDWMD HKILIARNSSSKKSQIIMADYTLTYQKVIVDGGLNLFPKWGNKEQTLFYYTAYDHDKPTLYRYDLNTNKA SKILSSGGMVVASDVNVDGSKLLVTMAPKDQPDVYLYDLNTKNLTQLTNYSGIDVNGNFIGSDDSKVVFV SDRLGYPNIFMQDLNSNSAEQVVFHGRNNSAVSTYKDFLVYSSREPNQAGVFNIYLMSINSDYIRQLTAN GKNLFPRFSSDGGSIVFIKYLGAQSALGVIRVNANKTFYFPLRVGKIQSIDW

SEQ ID NO:8

ACE 134 Cj0143

>AnrP57234 (NC_002163) periplasmic solute binding protein for ABC transport system [C. jejuni]

MKKIILFILSLGIFYTFTQAKNLEQEQNTSSNLVSVSIAPQAFFVKKIAANTLDVNVILPPNSNEHNFEF KPSTMKKLEKSDIYFTIGLEFEKVFTDKFKQNFPKLQVINMQKNIALIQTHDTHEHSHEHEHHEHGHFDP HTWLDPILVQTMALNIYDTLIQKYPQNENLYKENLDKFLAELDSLNLQIASKLEKLKNREFVVYHPSWTY FAKRYNLTQIPVEILGKEPKSKDLQKLITLMKDKNLKVIFVQNGFPENAAKTLAKECDAKIYKIDHLSYD WENELLKTADAFSHNL

SEQ ID NO:9

ACE 159 Cj0169

>AnrP829849 (NC_002163) superoxide dismutase (Fe) [C. jejuni]
MFELRKLPYDTNAFGDFLSAETFSYHHGKHHNTYVTNLNNLIKDTEFAGKDLVSIIKTSNGGVFNNAAQV
YNHDFYFDCIKPSTGCGCGGSCQSIDANLQAALEKEFGSLENFKAEFIKGATGVFGSGWFWLVYNTKNQK
LEFVGTSNAATPITEDKVPLLVVDVWEHAYYVDHRNARPAYLEKFYAHINWEFVAKAYEWALKEGMGSVS
FYANELHPVK

SEQ ID NO:10 ACE 183 Cj0193c

>AnrP139712 (NC_002163) trigger factor (peptidyl-prolyl cis /trans isomerase, chaperone) [C. jejuni]

MEVKAKQLDSVNATASVKIPSGMIKSEVENLAKKASKSVKMDGFRPGKVPVSAVLKRYERELTQDAEQNL FKSAVNSALQELKKENKELVGEPYFEKFDRKDGEIIAELILSFKPEIKLEGYEKLIPEYQTPKVSKKEID EKKDELLKRFATPEAIKTKRALKEGDFAKFDFEGFVDDKAFEGGKAENYVLEIGSKQFIPGFEDGMVGMK IGEEKDIKVTFPKEYGAAHLAGKDAVFKVKLHEIQELKIPELDDEMLKKLLPGEEKASVEVLDEKLKEQI KNEKLFKLVNDELKGKFADALIEKYNFDLPKGIVEQETDMQMRAAFNTFSEKEIEELKASKEKYQEKRDS FKEEAQKSVKLTFIIDELAKLRKIEVNDQELIQAIYFEAYRYGMNPKEHLENYKKQGALPAVKMALIEEK LFNDIFIPKTEKSEKVSKKEKEDK

SEQ ID NO:11

ACE 259 Cj0285c

>AnrP467527 (NC_002163) chemotaxis protein [C. jejuni]

MFDENIVKTGSNEMELVDFRIFKQGHDKVYEGIYGVNVSKVREIIKIPSLTELPGVPDYIEGIFDLRGVV IPVVNLAKWMQITEPESTMLKPRVIITEFSNILIGFIVHEAKRIRRINWKDIEPATFSTGSGALDKGKIT GVTRIENDEVLLILDLESVVEDLGIYAPKTDIDFGKIEKFTGTALILDDSMTARKRVKEMMQQMGFQVVE AKDGVEGINKLEELSQIYGESLNDTLKIIVSDVEMPQMDGFHFAARIKEDPRFKDIPIVFNSSLSNEFMN EKGVQEAGGEGYLVKFNASDFFNEIAKVIKKHQSQEQG

SEQ ID NO:12

ACE 332 Cj0358

>AnrP681041 (NC_002163) putative cytochrome C551 peroxidase [C. jejuni] MKVKSLLIASLVAFSSLNAASLIDEAKNSGLVALPKDQKGVDEILKQNGVKASEFTLEKAELGKKLYFEP RLSKSGIISCNTCHNVGLGGTDGISTAIGHKWTANPHHLNSPTVYNAVLNNTQFWDGRAGTLADQAKGPI QADPEMATPAKLAVEKISSLPEYVSEFKKIYGKSGVNFDNIADAIANFERTLITPSRFDKFLEGDEKALT KEEQKGLKLFIDKGCVACHNGVNLGGNMQAFEVAGKYKFANLGDFKGDANGMVKTPTLRNVAETAPYFHN GAIWNLKDAIKEMGSVQLGIKISDKEAKSIETFLKSLTGTKPAIVYPQLPISTEKTPKPEL

SEQ ID NO:13

ACE 419 Cj0448c

>AnrP569688 (NC_002163) putative MCP-type signal transduction protein [C. jejuni]

MFGSKINHSDLQKLEEENKNLTHKIEKFQSENLELKNKITSLEQAALESKLKTDLLNVLLTGVLKNITII QGDMLENVNKAEVISSYSKTSLAEMDELNHIANSINASLGNITESANKTRDVAGTLHRSVDEITNVINLI KDVSDQTNLLALNAAIEAARAGEHGRGFAVVADEVRKLAEKTQKATTEVEMNINLLKQNANEMYTQSEQV EKISIDSNAHIMSFSEKFTHLVNEAHSTNSNAVGIASEAFVSLAKLDHIAFKLNGYKEIFSKSGKQLADH TSCRLGKWLASTGKERFGQNKSFLKINEPHEKVHENMNNAITIANTEDISKDITQHSIINKCEVAENASL

FIG. 4

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DLFNVFKEMLDESDH

SEQ ID NO:14 ACE 420 Ci0449c

>AnrP852550 (NC_002163) hypothetical protein Cj0449c [C. jejuni] MLHEYRELMSELKGKDAHFDKLFDRHNELDDMIKDAEEGRTSLSSMEISTLKKEKLHVKDELSQYLANYK K

SEQ ID NO:15 ACE 481 Cj0511

>AnrP255677 (NC_002163) putative secreted protease [C. jejuni]
MMELILKTKRFFAGLAGFATTFILCLFLTSHLQAKVDQKEEQVQKRLEALDKLTKTLAIVEQYYVDDQNI
SDLVDKSLSGLLSNLDAHSSFLNEKDFNDMKIQTNGEFGGLGITVGMKDGALTVVSPIEGTPADKAGIKS
GDIILKINDEATLGINLNDAVDKMRGKPKTQITLTIFRKGATKPFDVTLTREIIKIESVYAKMIENENIL
YLRVTNFDKNVVDVASKELKKYPNVKGVILDLRNNPGGLLNQAIGLVNLFVDKGVIVSQKGRIASENQEY

 $KADPKNKISNASLVVLVNGGSASASEIVSGALQDLKRGVIVGENTFGKGSVQQIIPINKTEALRLTIARY\\ YLPSGRTIQAVGVKPDIEVFPGKVNTQEDGFSIKESDLKQHLESELEKIDKNKKEDKQENKDNKNLISQK\\ QINDDAQLKSAIDTIKILNIKOGO$

SINDDYSDYSHIDIIKIMIKÖGÖ

SEQ ID NO:16 ACE 528 Cj0559

>AnrP252410 (NC_002163) oxidoreductase [C. jejuni]

MKKIDLIVVGAGPTGIGCAVEAKLKNKEVLILEKSNNICQTLMQFYKDGKRVDKAYKGCEGTNHGHVPFE DGTKESTIETFQNALKEHNIEVEFGSEVESVKNENGVFLVSTAKGVYECKNIIVAIGRMGKPNKPDYKLP MTLTKIINFNANSVLGNEKILVVGGGNSAAEYAVDLANSNQVSLCYRKKEFTRLNDINLKDIHEAGNSGK VELKLGIDINEVEDDNGKAKVNFTDGTSDIYDRIIYAIGGSTPLDFLQKCGINVDDKGVPLMDENKQSNV KGIFVAGDIATKNGASIVTGLNDAVKILSVL

SEQ ID NO:17

ACE 582 Cj0613

>AnrP916533 (NC_002163) possible periplasmic phosphate binding protein [C. jejuni]

MKKILSLSVTSLALCGALNAVDLKIAGSSTVYPFTSFVAEEYASIKNTKTPIVESLGTGGGFKVFCEGTT DISNASRPMKLSEFETCKKAGVTDIVGMMIGYDGIVLAQNKTNAPLNITKKELPLALAKEIPQNGKLIPN PYTNWNQINKNLPNRKISVYGPPSSSGTRDTIEELVMSDVSKKIPEYKGEYKTIRQDGAYIPSGENDNLI VSKLTIDKDAFGIFGYSFLVSNSDKINAANIDGVTPSEESIADEKYELARSLFIYINAKKNPKEAFDFAK IYMSDDLAKSGGELEKIGLVPLSDDKLKASQKHVEDRKILNDELVKAGKVF

SEQ ID NO:18

ACE 605 Cj0636

>AnrP126795 (NC_002163) NOL1\NOP2\sun family protein [C. jejuni]
MQNILSSFAQEKNVCVFANTLKTSIEELEKEFLKQNLKFKKINVYCYLFDAKDKAILSSMKAFNEAHFYI
QNYSSYLCALNLEVKAGQSVLDMCAAPGGKSINLANFMQNTGYLACNEMSRDRFFILQKNLKNYGVNAKV
FMKDGKNIGNLCPLKFDKILLDAPCSTFAKIGFDLEKSYKEIKNIAKTQKKLLHSALKALKIGGELVYST
CTFTKEENEEVIENALKSEFKLELLDIDLENVEAKAGQSEEFAEISKCRRILPSLDYDGFFIAKLRKLC

SEQ ID NO:19

ACE 667 Cj0706

>AnrP327756 (NC_002163) hypothetical protein Cj0706 [C. jejuni]
MNKYLEQLVLLSKIDQEIDSYEPKIDSINKTLKDAELKIEKINADLEKIDEEIKDIENQKIQNNAHISEF
SAKIKDLSKKSGVVKTEKEANALKIEEDIAKEQLDAANDEIVRLDKILENKETYKKELEEEKIKQEQNIN
EIRVSIKSEMEVLEKDRMSVYDKKTKLVSEMNQKVLSFYEKIRKWAKNTAVVPVKKQACYGCFMKIYDKT
YLSVVKGEEIVTCPHCGRILYKEQEEON

SEQ ID NO:20

ACE 676 Cj0715

>AnrP684299 (NC_002163) transthyretin-like periplasmic protein

 ${\tt MFSIKKTLLILASVPMFLSATEYQLSTHVLDITSGQPAPKVKVELYKLEANQQWKKVSEEFTEENGRIGD} \\ {\tt LLPYEKAENRAFGIYKLKFFTKDYYTSHKINTFYPFVEVSFELSKDQKHYHVPITLSPFGYSTYRGS}$

SEQ ID NO:21

ACE 731 Cj0779

>AnrP191193 (NC_002163) probable thiol peroxidase [C. jejuni]

MSIVNFKGNPVKLKGNSVEVGADAPKVNLKAKDLSVIEIGAAGKTQIILSVPSLDTPVCATEAREFNKKV ASYNGAEVIVVSMDLPFAMGRFCSTEGIENLSVASDFVAKEFGEKYGVLINEGALEGLLARAVFVIKEGK VAYKELVNEITEMPDIAKLDAFFGGSSCCGGCGCH FIG. 4

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SEQ ID NO:22 ACE 853 Cj0909

>AnrP318705 (NC_002163) putative periplasmic protein [C. jejuni] MKKILLLGALFAVNLWAVNDIEVKNAFVKQTPPHAQNSAIFLTIFNNTNKDIALISAKSDISEVSELHTH IHKDGKMMMQKIPEIIIKAHSSTELKSGGYHIMLLKLKKPIIKDTKVNLDLKFNNHKTIELKNIDSKEF

SEQ ID NO:23 ACE 937 Cj0994c

>AnrP493933 (NC_002163) ornithine carbamoyltransferase [C. jejuni]
MKHFLTLRDFSKEEILSLVNHASELKKEPKKLLQDKTLAMIFEKNSTRTRMAFELAITELGGKALFLSSN
DLQLSRGEPVKDTARVIGAMVDFVMMRVNKHETLLEFARYSKAPVINALSELYHPTQVLGDLFTIKEWNK
MQNGIAKVAFIGDSNNMCNSWLITAAILGFEISIAMPKNYKISPEIWEFAMKQALISGAKISLGYDKFEA
LKDKDVVITDTWVSMGEENEKERKIKEFEGFMIDEKAMSVANKDAILLHCLPAYRGYEVSEEIFEKHADV
IFEEARNRLYVVKALLCFLDNQRGRE

SEQ ID NO:24 ACE 941 Cj0998c

>AnrP979073 (NC_002163) putative periplasmic protein [C. jejuni]
MKKILVSVLSSCLLASALSAVSFKEDSLKISFEGYKTKDMIGTKGEFKNVEYKFSKNIKDLASYLKGAKA
TIKPSNAFMGEGNDIITNNITKVFFPALLGDTDIKVVFQDVIAGENKGVISAKITMDKKSTIVPLTYTIK
DNKFEAKGQLDLHTFKNGSKALKALSDVAAGHGGISWPLVDISFNADLAE

SEQ ID NO:25 ACE 961 Cj1018c

>AnrP257863 (NC_002163) branched-chain amino-acid ABC transport system periplasmic binding protein [C. jejuni]

MKKSLILASILSLSLSAAEVKIGVVLPLSGATAAYGQSALEGIKLANSMQSALSNGDKVSLAIIDTKGDK LESSSGANRLVSQDKVIGLIGEMVTANTLQVMRVAEDNKIPLIAPAATGDRLLDKKIYSSRVCFMDSFQG SSLAKYVFSKLNYKSAVIVVDQSTDYSLGLAKAFEKQYKSNGGQILRILRVNSGDKDFRAIVAQVKSLNP EFIFLPLYYSEASLFARQSKLAGLNIPMGSADGVADQTFISLAGDASEGYIFTDSFDANNPTTKLSKEFI SVYEKAKGTKEVPNFSAMGADAYFVMLNAMNACVENLTSKCVNEKIHQTKNYQGVSGVISIDQTGNATRS VVVKEIKNQKQNYKDIINP

SEQ ID NO:26 ACE 962 Cj1019c

>AnrP326257 (NC_002163) branched-chain amino-acid ABC transport system periplasmic binding protein [C. jejuni]

MKKLTLTLSVLTMVNCLYAKDINIGVVLPLTGTVAAYGQDVFNGIELANKLQPKLSNGDVIKLITIDTKG DKLETSNGVNRLIATDKVLGIIGEATTPNTIQAISIAEEKKIPLIAPVASGDKLLDKKKYASRVCFKDSF QGDKFATYVSKDLGLKNAVIIIDQSNVYSLGLARAFENSFKNNGGKIIKKLVINSGDKDFRAVVSQLKSL NPDFVYMPIYHPEAALIARQARQIGFDKLLVAGDGVNNQTFIDLGGSAVNGVIFTDSFDYNSPSTQLGKD FVAAYEKVKGTKELPAFSAMGADAYFVMLNAMNACVDNLSSECINSKIHQTKDFQAVGGVISIDESGNAI RSVVIKEIQNQKQNYKTIINP

SEQ ID NO:27 ACE 984 Ci1041c

>AnrP198268 (NC_002163) putative periplasmic ATP/GTP-binding protein [C. jejuni]

MKKYVLSLALLGSLLGASELKYQEFDGFKSPESIFVDKNYVYVSNVGEKLEPLAKDNDGFISKLDKNGKV LEYKFLTHLNAPKGMMEIGKTLYVVDIDVLRGFDLKTKKEIFNLPIKGAIFLNDIEKLDDNTLLVSDTGT GLILKVDLKTKQYDELLKLDLAKFGGPNGLYLDRKKHKLFIAGYHPDGVSGGVVMAYDLNTKELSIIKNE KESYDGIVPYKDGLLVSSWGNNLNGYIYNLDNVKSVKLELPLMKGPADIFIEGNILWIPKMVEGKIFKVE LNK

SEQ ID NO:28

ACE 1094 Cj1153

>AnrP385049 (NC_002163) putative periplasmic cytochrome C [C. jejuni] MKKLLVVSALACLGVSAFAADGATLFKKCAVCHGANADKVYLNKVPALKTLSSAERLQYMKEYSEGKRNA YGQGAIMKLNLKGLTEEDFKAIEAHIETLK

SEQ ID NO:29

ACE 1155 Cj1214c

>AnrP470247 (NC_002163) hypothetical protein Cj1214c [C. jejuni]
MFKTIVCFLALNLSLFAVGFDLKPIKSELVKVDDIYGYIKDSDDIKLYSSGVVVQHFSNSQSIIARASVI
DKKNGLAKLEFSVFSALKQDALPLPNVLPKVGDEVVLNFLYDRGLVIAPDEQTYNELVREFPQIYFTHID
IFGAQLIRTATLSPKRSDFRQFCDDNAVGILVVALENHAEVVDCQDFNKLYEVPISKPTSVQVPFYSRIG
GYKSNFFDFNSQEIGNYYRYYDALINLPKVQ

FIG. 4

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SEQ ID NO:30 ACE 1227 Cj1287c

>AnrP530915 (NC_002163) malate oxidoreductase [C. jejuni]

MNLKEEALKYHLGGKIDIVPSKPMATSYDLSLAYSPGVAEPCLEIAKDNELAYTYTNKANLVAIVSDGSA VLGLGNIGAQASKPVMEGKACLFKKFANVNAYDIEINVHSIEEIVNFCKALAPTVGGINLEDIAAPKCFE IEAALQDLGIPVMHDDQHGTAIISTAGLMNAMEISGKKFKDIKVVVSGAGAAGIASAKMYRNLGVENIIL VDSKGVISKDRNDLTPQKLEFAVDSKEKTLKEVLKGADVFLGLSAPKILDDEMVLSMAKDPVIFALANPI PEVMPEDVARLRKDAIVGTGRSDYPNQINNVLGFPFIFRGALDVRASKITENMKVAAAKALADLAKLPVS DAVKKAYNLSTLEFGRDYVIPKPFDERVKAAVSTAVAAAAVKDGVAKVKNFDEKAYFESLK

SEQ ID NO:31 ACE 1320 Cj1380

>AnrP108083 (NC_002163) putative periplasmic protein [C. jejuni]
MKKLSLILVCSASLFAASNSEISDFYSKSIKAQFPNATVSVSNRQKVGNTGFESVIVSVELNGQKQENIL
FTKDSLITPDLIDLKTGISYAQEYEMKKFQEARENFTKNAKAVAQKETMVIALGDKNKPAIYVFSDFECP
YCREHLAQIDDELKNYQVNYILTPVHGKSAFEKSALIYKEAKKAKNDKEKIAILNKYYDANIKNYPKVSD
AELKEVFSLYEKYRSLGLSATPTIIK

SEQ ID NO:32 ACE 1431 Ci1496c

>AnrP947055 (NC_002163) putative periplasmic protein [C. jejuni]

MIKKFILLVFISSVVFGAEQDCEQYFEARKAQIELQTREFDEARQSLEAYKASFEALQKERLENLEKKEA EVNATLAKIEELKLENARLVEEQQKILNSINDKTQGRVKEIYSQMKDAAIADVLSQMDAEDASKIMLSLE SRKISGVLSKMDPKKASELTLLLKNLDNNASN

SEQ ID NO:33 ACE 1449 Cj1516

>AnrP407504 (NC_002163) putative periplasmic oxidoreductase [C. jejuni] MNRRNFLKFNALTLASMGVAYANPMHDMHSMHKNHSINHDLDTSFINFAPKNLKLLDPKQFPQGEILKAL PLLKNESKEKNIFRATLEIKENHIELIKGKKTLFYTYNGLVPAPKIEVFEGDKLEILVKNKLKEATTIHW HGVPVPPDQDGSPHDPILAGEERIYRFEIPQDSAGTYWYHPHPHYTASKQVFMGLAGAFVIKAKKDALSH LKEKDLMISDLRLDENAQIPNNNLNDWLNGREGEFVLINGQFKPKIKLATNERIRIYNATAARYLNLRIQ GAKFILVGTDGGLIEKATYKEELFLSPASRVEVLIDAPKDGNFKLESAYYDRDKMMVKEESNTLFLANIN LKKEKLELPKNLKIFKPLEEPKEFKEIIMSEDHMQMHGMMGKSENELKIALASMFLINGKSYDLKRIDLS SKLGVVEDWIVINKSHMDHPFHIHGTQFELISSKLNGKVQKAEFRAFRDTINVRPNEELRLKMKQDFKGL RMYHCHILEHEDLGMMGNLEVKE

SEQ ID NO:34

ACE 1469 Cj1540

>AnrP818860 (NC_002163) putative periplasmic protein [C. jejuni]
MKKIISLALALALSASAAELKMATTTSTDNTGLLDALKPLYEKESGNTLKWVAVGTGAALKMGEDCNADV
LFVHSPKAEKEFMKKGFGVDRTPVMYNDFIIIADKSLASKFKGKNLKESLELIKNEKLTFISRGDKSGTD
NKEKSLWKNLGGVPEKQSWYQQSGQGMLASIKIAEEKKGVILTDRGTYIKYEANEKGKPNLVIVNEGDDS
LKNFYSVIATNPKHCKNVNYTEASKFIKWVTSDKTLNFIADFKLLNKPLFVIDAKTRKD

SEQ ID NO:35

ACE 1584 Cj1659

>AnrP294550 (NC_002163) periplasmic protein p19 [C. jejuni]
MIKKVLSVVAAAAVISTNLFAGEVPIGDPKELNGMEIAAVYLQPIEMEPRGIDLAASLADIHLEADIHAL
KNNPNGFPEGFWMPYLTIAYELKNTDTGAIKRGTLMPMVADDGPHYGANIAMEKDKKGGFGVGNYELTFY
ISNPEKQGFGRHVDEETGVGKWFEPFKVDYKFKYTGTPK

SEQ ID NO:36

ACE 1569 Cj1643

>AnrP407676 (NC_002163) putative periplasmic protein [C. jejuni]
MKKILIICMLFTLSFGIERPKFEDFLAGYERNKASMLNYEGMPAFALSENLLAVLKQPNAKLNKYVKYDP
FLNLYLVRTDFSLIPTPMGDEEKLTRNDWVGIWDPNKPYIGHIKYLAQNIDEKDQLDFNSKIGLLGTPCC
EMMGIALNNSSFIGNRYLKHFMKYNDVYWGDIGVDFVVRENKIYVNNVRKNPQFLINDQVISVDGLPAND
LRKLNEKILFADRGSTLYFQVLRDNMDLNISTEVFAKDLSKFNLPDSKPKPKITNFTSNLGLTVNASLVV
TKIDPKSKVSNAGFMVGDKILRVNNIILNNFKELQNILSAGNDFSILIERKSTKLPLSNFNNELGGNANS
GGDGKFQFFIRLTK

SEQ ID NO:37

ACE 96 Cj0105

>AnrP758295 (NC_002163) ATP synthase F1 sector alpha subunit [C. jejuni MKFKADEISSIIKERIENFDLNLEIEETGKIISVADGVAKVYGLKNIMAGEMVEFENGDKGMALNLEESS VGIVILGKGEGLKEGASVKRLKKLLKVPVGEALIGRVVNALGEPIDAKGVINANEYRFVEEKAKGIMARK FIG. 4 16/20

SVHEPLHTGIKAIDALVPIGRGQRELIIGDRQTGKTTVAVDTIISQRGQGVICIYVAIGQKQSTVAQVVK RLEEHGAMEYTIVVNAGASDPAALQYLAPYTGVTMGEFFRDNAKHALIVYDDLSKHAVAYREMSLILRRP PGREAYPGDVFYLHSRLLERASKLNDELGAGSLTALPIIETQAGDVSAYIPTNVISITDGQIFLETDLFN SGIRPAINVGLSVSRVGGAAQIKATKQVSGTLRLDLAQYRELQAFAQFASDLDEASRKQLERGQRMVELL KQPPYSPLSVEKQVVLIFAGTKGFLDDIAVSRIKEFEDGIYPFIEAKHPDIFEQIRSKKALDSDLEEKLA KAINEFKANHL

SEQ ID NO:38 ACE 165 Cj0175

>AnrP550554 (NC_002163) putative iron-uptake ABC transport system

periplasmic iron

MKKIFFMFLTAVSFLGASELNIYSARHYNADFEIIKKFEEKTGIKVNHTQAKASELIKRLSLEGSNSPAD IFITADISNLTEAKNLGLLSPVSSKYLEEFIPAHLRDKDKEWFAITKRARIIAYNKNTNIDISKMKNYED LAKAEFKGEIVMRSATAPYSKTLLASIIANDGNKEAKAWAKGVLENLATNPKGGDRDQARQVFAGEAKFA VMNTYYIGLLKNSKNPKDVEVGNSLGIIFPNQDNRGTHINISGIAMTKSSKNQDAAKKFMEFMLSPEIQK ILTDSNYEFPIRNDVELSQTVKDFGTFKEDQIPVSKIAENIKEAVKIYDEVGFR

SEQ ID NO:39

ACE 257 Cj0283c

>AnrP602342 (NC_002163) chemotaxis protein [C. jejuni]

MSNEKLEQILQKQQTQMAGPDVDQREDDIIQLVGFVVGDEEYAIPILNIQEIIKPIEYTRVPSVPDYVLG VFNMRGNVMPLIDLAQRFHLGSSKMTPQTRYIVLRGETNGTGVGGNAGFVIDRLTEAIKIHRNRIDPPPE TLVKDKGMIYGIGKRDENILTILKVEALLKREF

SEQ ID NO:40

ACE 277 Cj0303c

>AnrP311344 (NC_002163) putative molybdate-binding lipoprotein

[C. jejuni]

MKKFVVFFGILLFVSCLNAQNLSIFVASSASKAMSEVKDEFLKTHPEDKIELVFGASGKYYELLKQGREF DLFFSADTKYAKAIYDDKNALIKPKVYVLGVLALYSLDENLLQGGVENLKEKANKITHLSIANPKVAPYG VAAKEVLENLGLNELLKDKIVLGENISVPVLHVDSKNSDIAIVAYSLVSSINHPKGKAVIIDAKYFSPLE QSYVITKYAKDKKLAFEFNEFIGSSKAKEIFKKYGFSTP

SEQ ID NO:41

ACE 308 Cj0334

>AmrP505685 (NC_002163) alkyl hydroperoxide reductase [C. jejuni]
MIVTKKALDFTAPAVLGNNEIVQDFNLYKNIGPKGAVVFFYPKDFTFVCPSEIIAFDKRYQEFKNRGIEV
IGISGDNEFSHFAWKNTPVNQGGIGQVKFPLVADLTKQIARNFDVLYAEAVALRGSFLLDADGTVRHAVV
NDLPLGRNIDEMLRMVDTMLFTNEHGEVCPAGWNKGDEGMKANPKGVAEYLGKNEAKL

SEQ ID NO:42

ACE 388 Cj0415

>AnrP72219 (NC_002163) putative oxidoreductase subunit [C. jejuni]
MAEVLKKVDVVTVGAGWTGGIVAAELTKAGLNVLSLERGHMQSTENFNYIHDEWRYGINYGLMQDCSKDT
VTFRHDPSGLALPYRKMGSFLLGNNVGGAGVHWNGWTFRFMPYDFEIQTLSKQRYGNKLGNDYTLQDWGV
TYKDMEPYYDRFEKTCGVSGEPNPLAEKMGAFRSSPYPQEPLENTKMLKRFESAAKSSNLHTYRLPASNS
KGGYTNPDGQDLAPCQYCAYCERFGCEYGAKASPLNTVIPKAMSTGKYTIRTYSNVTQILKKDGKVTGVK
FVDTRTMKEYIQPADIVVLTSYMFNNAKLLMVSNIGEQYDPKTGKGTLGRNYCYQMNMGTTAFFDEQFNT
FMGSGALGTTSDDFNGDNFDHSKEKFLHGAMIYSVQLGTRPIQSAPLPAGAPTWGAEFKKALNYNFTRAI
TVGGQGASLPHKNNYLSLDPTYKDAFGMPLLRLTYNFTDQDRALHKFITDKTAEVAKRMQGVKSIKKGAY
LKDYSVVPYQSTHNTGGTTMGADRETSVVNTYLQHWDADNLFVVGAGNFQHNSGYNPTDTVGALAYRCAE
GILKYHKSGKSLA

SEQ ID NO:43

ACE 393 Cj0420

>AnrP490750 (NC_002163) putative periplasmic protein [C. jejuni]
MKKVLLSSLVAVSLLSTGLFAKEYTLDKAHTDVGFKIKHLQISNVKGNFKDYSAVIDFDPASAEFKKLDX₁
TIKIASVNTENQTRDNHLQQDDFFKAKKYPDMTFTMKKYEKIDNEKGKMTGTLTIAGVSKDIVLDX₂EIGG
VAKGKDGKEKIGFSLNGKIKRSDFKFAX₃STSTITLSDDINLNIEVEANEK

wherein X1 is V or A, and X2 is A or T, and X3 is T or A

SEQ ID NO:44

ACE 711 Cj0759

>AnrP586832 (NC_002163) heat shock protein dnaK [C. jejuni]
MSKVIGIDLGTTNSCVAVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDSAKRQAVTNPEKTIYSIK
RIMGLMINEDAAKEAKNRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGESVTDAVIT

FIG. 4 17/20

VPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKDSEKIVVYDLGGGTFDVTVLETGDNVV EVLATGGNAFLGGDDFDNKLIDFLANEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETEINLPFI TADASGPKHLVKKLTRAKFEGMIDSLVAETITKINEVVSDAGLKKDEIKEIVMVGGSTRVPLVQEEVKKA FNKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQVF STAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKA QEIKITGSSGLSEEEINNMVKDAELHKEEDKKRKEAVDARNAADSLAHQVEKSLSELGEKVAAADKENIQ KALDDLRETLKNQNASKEEIESKMKALSEVSHKLAENMYKKDEPNTANDKKKKDDDVIDAEVE

SEQ ID NO:45
ACE 723 Cj0771c
>AnrP524051 (NC_002163) putative periplasmic protein [C. jejuni]
MNLFKIILACILNLSSLFAQNITIGATPNPFGSLLELMKDDFKNKGYELKIVEFSDYILPNRALEEKEL
DANLYQHKPFLEEYNLKKGSNLIATTPVLIAPVGVYSKKIKNLENLKEGARVAIPNDATNESRALEILEK

MNLFKITILACILNLSSLFAQNITIGATPNPFGSLLELMKDDFKNKGYELKIVEFSDYILPNRALEEKEL DANLYQHKPFLEEYNLKKGSNLIATTPVLIAPVGVYSKKIKNLENLKEGARVAIPNDATNESRALELLEK AKLIELNKNTLKTPLDINKNPKKLKFIELKAAQLPRALDDVDIAIINSNFALGAGLNPSKDTIFREDKNS PYVNYVVVRSEGKNSEKTKVIDEILRSDKFKAIINEHYKDILIPAF

SEQ ID NO:46

ACE 724 Cj0772c

>AnrP579672 (NC_002163) putative periplasmic protein [C. jejuni]
MKIKSLFIASILTLSLNANALETITVAATPVPHAEILEQVKPDLEKQGYKLEIKEFTDYVLPNLAVDNGE
ADANFFQHTPYLEEFNKNKGTKLIKVAAIHIEPMAVYSKKYKSLDDIKEGVKIAIPNDPTNESRALDIIA
KKGLVKFKDKALKTPLDIIDNPKKIKFVELKPAQLPRALNDVDFAVINSNYALSANLNPAKDSVFIEDKE
SPYANILVVRVGHENDPKIKALIQALQSDKIKQFIIEKYNGSVLPAF

SEQ ID NO:47 ACE 819 Ci0872

>AnrP694298 (NC_002163) putative protein disulphide isomerase [C. jejuni]

MRNFFCKFVLALVFYSSFALANNSFITLNPSLPSSENSVIEAFSYKCIHCYNHHKFGTLEKLREAFPNLH FKLYPVSLMNGEFSKEMNELFTFAQYKDEQNGKDASYSDSLSHKLADVYFVSYFLNKQRNFSNLDEFYDI GLKAMNVNKNEVLNFLNTPKAKEILSEFQRANDIAKTYGTPAFVVNGKYQINPSAINSMQDLEDLVKKLS NMK

SEQ ID NO:48 ACE 1060 Cj1118c

>AnrP515430 (NC_002163) chemotaxis regulatory protein [C. jejuni] MKLLVVDDSSTMRRIIKNTLTRLGHDDVLEAEHGVEAWDLLTKNEDVKVLITDWNMPEMNGLELVKKVRA EKKYEDMPIIMVTTEGGKAEVITALKAGVNNYIVKPFTPQVLKEKLEDVLGTGSGEGAAE

SEQ ID NO:49 ACE 1169 Cj1228c

>AnrP679791 (NC_002163) serine protease (protease DO) [C. jejuni]
MKKIFLSLSLASALFAASINFNESTATANRVNPAAGNAVLSYHDSIKDAKKSVVNISTSKTITRANRPSP
LDDFFNDPYFKQFFDFDFSQRKGKNDKEVVSSLGSGVIISKDGYIVTNNHVVDDADTITVNLPGSDIEYK
AKLIGKDPKTDLAVIKIEANNLSAITFTNSDDLMEGDVVFALGNPFGVGFSVTSGIISALNKDNIGLNQY
ENFIQTDASINPGNSGGALVDSRGYLVGINSAILSRGGGNNGIGFAIPSNMVKDIAKKLIEKGKIDRGFL
GVTILALQGDTKKAYKNQEGALITDVQKGSSADEAGLKRGDLVTKVNDKVIKSPIDLKNYIGTLEIGQKI
SLSYERDGENKQASFILKGEKENPKGVQSDLIDGLSLRNLDPRLKDRLQIPKDVNGVLVDSVKEKSKGKN
SGFQEGDIIIGVGQSEIKNLKDLEQALKQVNKKEFTKVWVYRNGFATLLVLK

SEQ ID NO:50 ACE 1510 Cj1584c

>AnrP355324 (NC_002163) putative peptide ABC-transport system periplasmic peptide- [C. jejuni]

MLRWFVLLFLLFLNLEAKIPKDTLIIAVENEIARINPAYSEDHDAVINLVFSGLTRFDENMSLKPDLAKS WDISKDGLVYDIFLRDDVLWHDGVKFSADDVKFSIEAFKNPKNNSSIYVNFEDIKSVEILNPSHVKITLF KPYPAFLDALSIGMLPKHLLENENLNTSSFNQNPIGTGPYKFVKWKKGEYVEFKANEHFYLDKVKTPRLI IKHIFDPSIASAELKNGKIDAALIDVSLLNIFKNDENFGILREKSADYRALMFNLDNEFLKDLKVRQALN YAVDKESIVKNLLHDYAFVANHPLERSWANSKNFKIYKYDPKKAEDLLVSAGFKKNKDGNFEKDGKILEF EIWAMSNDPLRVSLAGILQSEFRKIGVVSKVVAKPAGSFDYSKVDSFLIGWGSPLDPDFHTFRVFESSQD SALNDEGWNFGHYHDKKVDIALQKARNTSNLEERKKYYKDFIDALYENPPFIFLAYLDFALVYNKDLKGI KTRTLGHHGVGFTWNVYEWSK

SEQ ID NO:51
ACE 1543 Cj1617
>AnrP111949 (NC_002163) putative haemin uptake system periplasmic haemin-binding protein [C. jejuni]

FIG. 4 18/20

MKKILIIMSLFLIALNAKERLVVLDPASIETLFMLKAEDQIVGIATLQHSNIYPKDQTSKLTSVGTFSNP SLEKIVALKPSLVILSSYSLNLEEGLKNFGIKSINLKAERLEDITKNITTLGQITKKEKEAELLKQEFNQ KFKKLSDKPLNKSAIYLYSSNPLMAFNDNSLIADILRLIGIKNLSPQSQISRPVISAEYILKQNPDILIL GINAKNNLLDTNALLKNTKAVKTGSIYFNKDTPILLRLSPKIIDRIQEFKTKLENNNF

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Fragments of AnrP630851 (Cj0092)
SEQ ID NO:52: TQQDINTQNEMSDASTKDITPKSIEDFFEEFAD
SEQ ID NO:53: GITKDGKTFYTGKSTVAVNDTDPQF
SEQ ID NO:54: RIATSKIQNYEADNSTNAKEFDELPKGDKVDQILNK
SEQ ID NO:55: QLDKALKDLGIDTNSLSEDRKKTLLKQEFLNKTMTN
SEQ ID NO:56: TIVTQRRGEYDVGVVAVISNKTRQLAKD
SEQ ID NO:57: AISEYLPKDTKGFLNEYGIRLVYDEN
SEQ ID NO:58: DPSNAKKTNILEDRAKET
SEQ ID NO:59: LSLKDERTTGDTYEEII
SEQ ID NO:60: VNDSSTQEQTQNITN
SEQ ID NO:61: TLKKWSYTSENG
SEQ ID NO:62: YSYENLANTNEALNSKSNATKNEAKKSSSIQRS
Fragments of AnrP57234 (Cj0143c)
SEQ ID NO:63: IFYTFTQAKNLEQEQNTSSNLVSVS
SEQ ID NO:64: LPPNSNEHNFEFKPSTMKKLEKSDIYF
SEQ ID NO:65: LEFEKVFTDKFKQNFPKLQVINMQ
SEQ ID NO:66: IQTHDTHEHSHEHEHHEHGHFDPHTWL
SEQ ID NO:67: DTLIQKYPONENLYKENLDK
SEQ ID NO:68: SKLEKLKNRE
SEQ ID NO:69: YFAKRYNL
SEQ ID NO:70: GKEPKSKDLQK
SEQ ID NO:71: LMKDKNLK
SEQ ID NO:72: QNGFPENAAKTLAKECDAKIYK
SEQ ID NO:73: DHLSYDWENELLKTADAF
Fragments of AnrP490750 (Cj0420)
SEQ ID NO:74: FAKEYTLDKAHTDVGFKIKHLQI
SEQ ID NO:75: VKGNFKDYSAVIDFDPASAEFKKLDVTI
SEQ ID NO:76: SVNTENQTRDNHLQQDDFF
SEQ ID NO:77: DFFKAKKYPDMTFTM
SEQ ID NO:78: TFTMKKYEKIDNEKGKMT
SEQ ID NO:79: GVAKGKDGKEKIGF
SEQ ID NO:80: LNGKIKRSDFKFATS
SEQ ID NO:81: EVEANEK
Fragments of AnrP684299 (Cj0715)
SEQ ID NO:82: LSATEYQLSTHV
SEQ ID NO:83: ITSGQPAPKVKVELYK
SEQ ID NO:84: LEANQQWKKVSEEFTEENGRIG
SEQ ID NO:85: LLPYEKAENRAFG
SEQ ID NO:86: KFFTKDYYTSHKINTF
SEQ ID NO:87: SFELSKDQKHYHVPI
SEQ ID NO:88: FGYSTYRGS
Fragments of AnrP579672 (Cj0772c)
SEQ ID NO:89: ILEQVKPDLEKQGYKLEIKEFTDY
SEQ ID NO:90: GEADANFFQHTPYLEEFNKNKGT
SEQ ID NO:91: AVYSKKYKSLDDIKE
SEQ ID NO:92: IPNDPTNESRAL
SEQ ID NO:93: KGLVKFKDKALKTPLDIIDNPKKIKFVELKPAQLPRALN
SEQ ID NO:94: ANLNPAKDSVFIEDKESPYAN
SEQ ID NO:95: GHENDPKIKALIQALQSDKIKQFIIEKYN
Fragments of AnrP257863 (Cj1018c)
SEQ ID NO:96: NGDKVSLAIIDTKGDKLESSSGANRLVSQDK
SEQ ID NO:97: VAEDNKIPLIAPAATGDRLLDKKIYSSRVC
SEQ ID NO:98: YVFSKLNYKSAVIVVDQSTDYSLGLAKAFEKQYKSNGGO
SEQ ID NO:99: NSGDKDFRAIVAQVKSLNPEFIFLPLYYSEASLFARQSKLA
SEQ ID NO:100: GYIFTDSFDANNPTTKLSKEFISVYEKAKGTKEVPNFSAMG
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FIG. 4 19/20 SEQ ID NO:101: VNEKIHQTKNYQGVS SEQ ID NO:102: QTGNATRSVVVKEIKNQKQNYKDIIN Fragments of AnrP108083 (Cj1380) SEQ ID NO:103: ELNGOKQENILFTK SEQ ID NO:104: SYAQEYEMKKFQEARENFTKNAKAVAQKETM SEQ ID NO:105: VIALGDKNKPAI SEQ ID NO:106: HLAQIDDELKNYQV SEQ ID NO:107: YKEAKKAKNDKEKIAI SEQ ID NO:108: LNKYYDANIKNYPKVSDAELKEVFSLYEKYRSL Fragments of AnrP407676 (Cj1643) SEQ ID NO:109: GIERPKFEDFLAGYERNKASMLN SEQ ID NO:110: LKQPNAKLNKYVKYDPFL SEQ ID NO:111: PTPMGDEEKLTRNDWVGIWDPNKPYI SEQ ID NO:112: AONIDEKDOLDFNSK SEQ ID NO:113: GNRYLKHFMKYNDVY SEQ ID NO:114: VVRENKIYVNNVRKNPQFL SEQ ID NO:115: PANDLRKLNEK SEQ ID NO:116: DRGSTLYFQVLRDNMDLN SEQ ID NO:117: AKDLSKFNLPDSKPKPKI SEQ ID NO:118: TKIDPKSKVSNAG SEQ ID NO:119: LIERKSTKLPLSNFN SEQ ID NO:120: ACE 393, ML53 (0:19) DNA

GAACGAAAAA

SEQ ID NO:121: DIVLDTEIGGVAK

SEQ ID NO:122: FAASTSTITLSDDINLNIEVEANEK

SEQ ID NO:123: LDATIK

Table 1

ACERS ACETS4 AC	ATCC no.	alternative designations	source								
VPI H840 [CIP 103778] diarrheic stool of child, Belgium				ACE83	ACE134	ACE393	ACE676	ACE724	ACE961	ACE1320	ACE1569
AS-88-79	campylobacter	jejuni jejuni									
AS-83-79	29428	VPI H840 [CIP 103778]	diarrheic stool of child, Belgium	×	×	×	×	×	×	×	×
LPA 094.06.89 not specified O X X X	33291	AS-83-79	human feces, Colorado	0	×	×	×	×	×	×	×
MY-7455 D9810, resistant to fluoroquinolones Numan stool, Oklahoma X X X X X X X X X	49943	LRA 094.06.89	not specified	0	×	×	×	×	×	×	c.
A7455 D6810, resistant to fluoroquirolones Imman feces, 2001, Alaska O	BAA-218	D3180	human stool, Oklahoma	×	×	×	×	×	×	×	×
1995-29, serotype HS:19	33250	A7455	blood, Florida	×	×	×	0	×	×	×	×
HB95-29, serotype HS:19 patient with GBS, China X X X X X X X X X	BAA-375	D5810, resistant to fluoroquinolones	human feces, 2001, Alaska	0	×	×	×	×	×	×	5
INP21, serotype HS.41 patient with GBS, Mexico X	BAA-527	HB95-29, serotype HS:19	patient with GBS, China	×	×	×	×	×	×	×	٠.
CCUG 10950;Penner MK104;Karmali 104; M.B. Skirrow, WRI, Worcester, UK 16 Apr 1981. L.Penner, Toronto, Canada X	BAA-530		patient with GBS, Mexico	×	×	×	×	×	×	×	×
NCTC 11168 (sequenced strain); HS:2 NCTC,London,UK 11 Jan 1978	43446	10950;Penner MK104;Karmali 104;	M.B.Skirrow, WRI, Worcester, UK 16 Apr 1981. L.Penner,Toronto,Canada <m.karmali< td=""><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td></m.karmali<>	×	×	×	×	×	×	×	×
0:2 clinical isolate, Denmark X<	700819		NCTC,London,UK 11 Jan 1978 <m.b.skirrow,worcester,uk,1977< td=""><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td></m.b.skirrow,worcester,uk,1977<>	×	×	×	×	×	×	×	×
0:19 clinical isolate, Denmark X	ML1		clinical isolate, Denmark	×	×	×	×	×	×	×	×
MK175; tet resistant Clinical isolate, Canada X X X X X X X X X	ML53		clinical isolate, Denmark	×	×	×	×	×	×	×	×
Alobacter colf Included the colfied Included the co	43502		clinical isolate, Canada	×	×	×	×	×	×	×	×
LRA 069.05.89 not specified 0 0 0 0 0 0										<u></u>	
LRA 069.05.89 not specified 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	campylobacter	coli									
	49941		not specified	0	0	0	0	0	0	×	0
	×	antigen present									
	0	antigen absent									
	3	weak signal (either expressed at lower level, or	is antigenically different but still recogn	nisable by	our antibo	dies)					